

SPECIFICATION

Page 3, paragraph 37, second sentence, replace with the following new sentence:

The methods described are preferably performed on the upper surface area of the substrate 11, however, the device and methods could be modified such that the method occurs within a reaction chamber 35 37 created within the substrate thickness 15 or on the lower surface area 13 of the substrate 9.

Page 4, paragraph 47, first sentence, replace with the following new sentence:

This arrangement is such that a reaction chamber 37 is created between the substrate 9 and sample distributor lower surface area 35b, such that when the sample is applied to one side of the reaction chamber 35 37, it will move according to capillary action so as to fill completely reaction chamber 37.

Page 5, paragraph 55, first sentence, replace with the following new sentence:

In use, the sample is applied to the sample reaction chamber 37 and contacts the reactant regions under a pH gradient applied via the gradient electrodes and under light conditions applied via the light source 47.

Page 5, paragraph 56, first sentence, replace with the following new sentence:

In this embodiment, the detection of regional photochemical changes occurring in the proximity of the reaction chamber 39 37 can be detected by an imaging device 45 preferably spaced a distance from the substrate 9.